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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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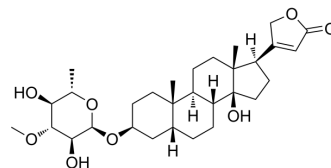
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Neriifolin

Cat. No.:	HY-N8441	
CAS No.:	466-07-9	
Molecular Formula:	C ₃₀ H ₄₆ O ₈	
Molecular Weight:	534.68	
Target:	Na ⁺ /K ⁺ ATPase; Apoptosis; Beclin1; Atg8/LC3	
Pathway:	Membrane Transporter/Ion Channel; Apoptosis; Autophagy	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (187.03 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.8703 mL	9.3514 mL	18.7028 mL
5 mM	0.3741 mL	1.8703 mL	3.7406 mL
10 mM	0.1870 mL	0.9351 mL	1.8703 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (4.68 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (4.68 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Neriifolin, a CNS-penetrating cardiac glycoside, is an inhibitor of the Na⁺, K⁺-ATPase. Neriifolin can target beclin 1, inhibits the formation of LC3-associated phagosomes and ameliorates experimental autoimmune encephalomyelitis (EAE) development. Neriifolin induces cell cycle arrest and apoptosis in human hepatocellular carcinoma HepG2 cells^{[1][2]}.

In Vitro

Neriifolin (0.1 μg/mL; 48 hours) induces apoptosis in HepG2 cells. Neriifolin (0-8 μg/mL; 72 hours) reduces viability of HepG2 cells. Neriifolin also induces S and G2/M phase arrests of the cell cycle and stimulates apoptosis of HepG2 cells. Stimulation of HepG2 cells with Neriifolin induced activation of caspase-3, -8, and -9, and up-regulated expression of Fas and FasL proteins^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Keller CW, et al. ATG-dependent phagocytosis in dendritic cells drives myelin-specific CD4+ T cell pathogenicity during CNS inflammation. Proc Natl Acad Sci U S A. 2017;114(52):E11228-E11237.
- [2]. Zhao Q, et al. Neriifolin from seeds of *Cerbera manghas* L. induces cell cycle arrest and apoptosis in human hepatocellular carcinoma HepG2 cells. Fitoterapia. 2011;82(5):735-741.
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Caution: Product has not been fully validated for medical applications. For research use only.

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